

ABSTRACT

Horizontal roller mills are disclosed. An example horizontal roller mill includes a cylinder and rollers. Each end of the cylinder includes an end cover, the end cover of one end includes an inlet and an end cover of the other end includes an outlet port. An outer wall surface of the cylinder includes a driving member for rotating the cylinder, the roller being located within the cylinder. Axial sections at both ends of the roller extend out of the end covers of the cylinder. The extended axial sections are provided with a mechanism for adjusting the material grinding pressure and for adjusting the gap between the surface of the roller and the inner wall surface of the cylinder. The example roller mill includes scrapers configured to scrape material layers. Further, at least two of the rollers are distributed along the circumference of an inner cavity of the cylinder. The example roller mill also includes a support system configured to restrict the cylinder in the circumferential direction.